

Title (en)
QUANTUM KEY DISTRIBUTION SYSTEM

Title (de)
QUANTENSCHLÜSSEL-VERTEILUNGSSYSTEM

Title (fr)
SYSTEME DE DISTRIBUTION DE CLES QUANTIQUES

Publication
EP 1929686 A4 20100901 (EN)

Application
EP 06815607 A 20060928

Priority
• US 2006037733 W 20060928
• US 23932805 A 20050930

Abstract (en)
[origin: US2007076884A1] A method is provided for distributing quantum cryptographic keys. The method includes receiving a first quantum signal from an initial quantum key generating transmitter. Following correspondence with the initial quantum key generating transmitter, a first quantum key is generated. A second quantum signal is transmitted to a recipient quantum key generating transmitter. Following correspondence with the recipient quantum key generating receiver, a second quantum key is generated. The first quantum key is encoded using the second quantum key. The encoded first quantum key is transmitted to the recipient quantum key generating receiver using the second quantum key.

IPC 8 full level
H04L 9/08 (2006.01)

CPC (source: EP KR US)
H04L 9/08 (2013.01 - KR); **H04L 9/0855** (2013.01 - EP US); **H04L 9/0858** (2013.01 - EP US)

Citation (search report)
• [X] US 2004184603 A1 20040923 - PEARSON DAVID SPENCER [US], et al
• [X] WO 2004049623 A1 20040610 - ARC SEIBERSDORF RES GMBH [AT], et al
• [A] BECHMANN-PASQUINUCCI H ET AL: "Quantum key distribution with trusted quantum relay", INTERNET CITATION, 13 May 2005 (2005-05-13), pages 1 - 13, XP002534289, Retrieved from the Internet <URL:http://www.quantumoptics.it/research/publications/0505089.pdf> [retrieved on 20090626]
• See references of WO 2007041178A2

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
US 2007076884 A1 20070405; US 7889868 B2 20110215; CA 2623575 A1 20070412; CA 2623575 C 20120508; CN 101292455 A 20081022; EP 1929686 A2 20080611; EP 1929686 A4 20100901; JP 2009510927 A 20090312; KR 101262688 B1 20130516; KR 20080056273 A 20080620; US 2012195428 A1 20120802; US 8488790 B2 20130716; WO 2007041178 A2 20070412; WO 2007041178 A3 20070712

DOCDB simple family (application)
US 23932805 A 20050930; CA 2623575 A 20060928; CN 200680036303 A 20060928; EP 06815607 A 20060928; JP 2008533584 A 20060928; KR 20087010513 A 20080430; US 2006037733 W 20060928; US 201113017274 A 20110131